

# Atharv Khare

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## EDUCATION

- **Indian Institute of Technology Madras** (expected) 2027  
*Bachelor of Science : Data Science* CGPA: 9.01

## SKILLS

- Programming Languages:** Python, Java, JavaScript, SQL, Bash Shell
- Machine Learning / Deep Learning:** PyTorch, scikit-learn, NumPy, Pandas, Matplotlib
- Frameworks / Tools:** Flask, FastAPI, Vue.js, React, Docker, Git, CI/CD
- Databases & Cloud:** PostgreSQL, SQLAlchemy(ORM), Redis, Firebase, GCP
- Relevant Coursework:** Business Data Management, Linear Algebra, Probability & Statistics

## EXPERIENCE

- **Business Analytics Consultant: SME in QSR Sector** September 2025  
*Academic Research on Data-driven strategies* Bhopal
  - Delivered a full-stack data solution, including a Python pipeline for 30k+ orders and an operational dashboard, which automated feature engineering and metric generation to uncover critical profitability drivers
  - Developed Bayesian and SARIMAX models for 90-day SKU-level demand forecasting, providing the quantitative backbone for an optimized inventory control policy
  - Drove product portfolio and Zomato re-pricing decisions using ABC-XYZ analysis and automated competitive intelligence

## ACHIEVEMENTS

- **Certification:** Datacamp Data Science Associate, HackerRank Intermediate Python & SQL
- **Winner:** Anukriti, IIT Madras
- **Finalist:** Hack-eclipse, Fetch AI Hackathons IIT Madras

## PERSONAL PROJECTS

- **Cloud Classification & Segmentation API** 2025  
<https://colab.research.google.com/drive/1jH4dWTeDyHtxyzL9X8FvEHOdNl6Zcys>
  - Built a dual-model pipeline (ResNet50 & U-Net) for simultaneous image classification and semantic segmentation
  - Developed a lightweight Flask REST API to serve real-time model inferences, enabling on-demand programmatic access to results
  - Reduced future project PoC timelines by 70% by creating a standardized end-to-end MLOps framework
- **Clearview: ML-Verified Pollution Reporting Platform** 2025  
<https://github.com/1mystic/clearview>
  - Developed crowdsourced platform integrating ML verification of pollution reports with interactive geospatial mapping (React, Leaflet API).
  - Trained TensorFlow classification model achieving 87% accuracy in automated pollution report validation.
  - Integrated biodiversity hotspot mapping and environmental impact metrics, enabling collaboration with NGOs and local authorities.
  - Built end-to-end data pipeline supporting real-time submissions, geotagging, and visualization dashboards for actionable insights.
- **Wixplorer: High-Performance Quiz Application** 2025  
<https://github.com/1mystic/wixplore>
  - Tools & technologies used: Flask, Vue.js, Redis, Celery, JWT, RESTful APIs
  - Built scalable web application with Redis caching, improving performance by 40%.
  - Implemented Celery task queues and database indexing to optimize app responsiveness.
  - Developed secure authentication with JWT tokens and comprehensive testing coverage.
  - Designed responsive UI/UX with cross-browser compatibility and mobile-first architecture.

## POSITIONS OF RESPONSIBILITY

- **Event Core :** Managed operations for 500+ participant event at Paradox, IIT Madras